

# Are we doing the right things to end TB?

# How can we address the full need for impact?

**Stop TB Partnership Secretariat** 

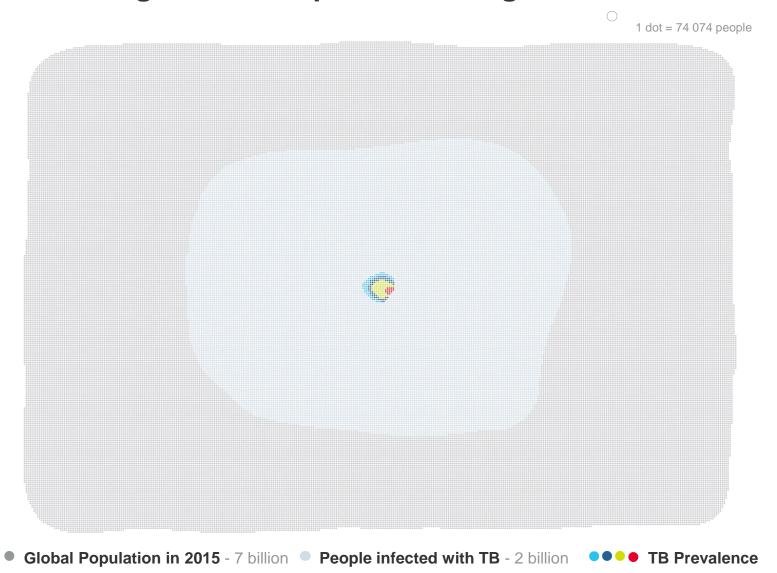
Stop TB Board meeting, Berlin, 18 May 2017







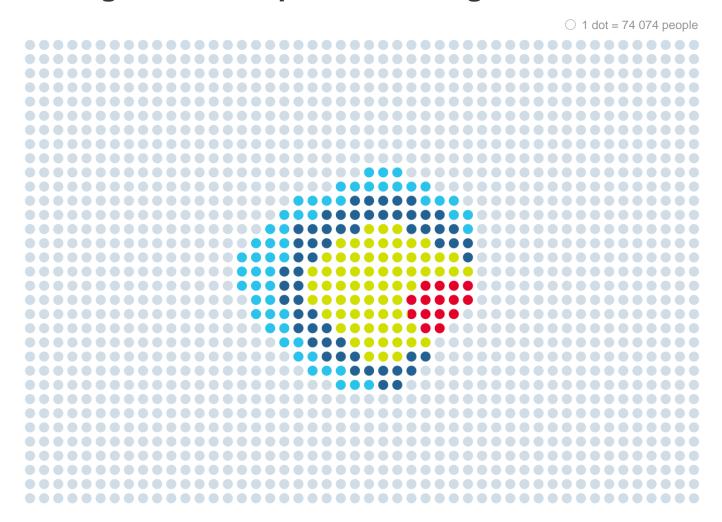
# We are focusing on a small part of the huge TB burden







### We are focusing on a small part of the huge TB burden



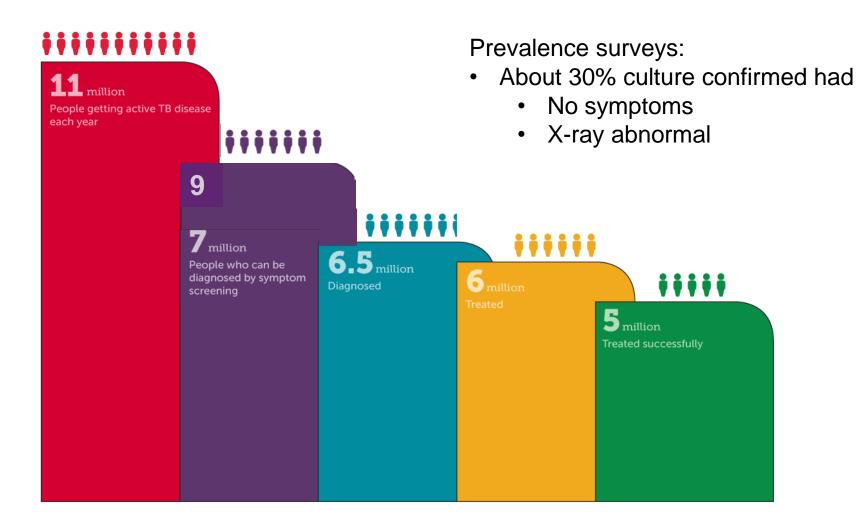
- People who fell sick during previous years
   People who successfully completed or are likely to complete treatment in 2015
- People who developed TB in 2015, and are not reached by services
- People with unsuccessful treatment, except death



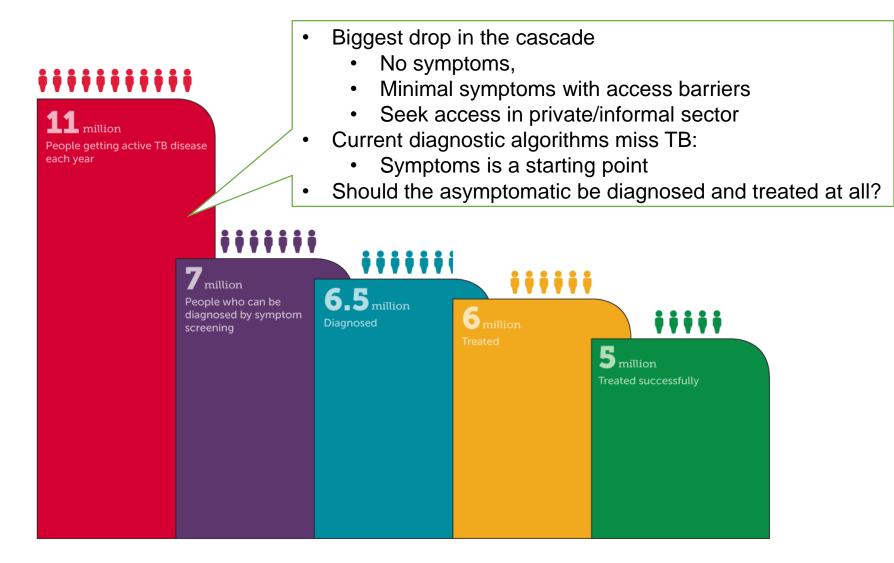
#### What is needed to hit the course to end TB?

- Currently we are not on track to end TB
- What is needed to be on-track to end TB?
  - Modelling done for the Global Plan shows that to be on track to end TB we need to scale up diagnosis and treatment to reach at least 90% coverage and 90% treatment success as early as possible.
- Current rate of progress is not heading towards such high levels of coverage and treatment success.

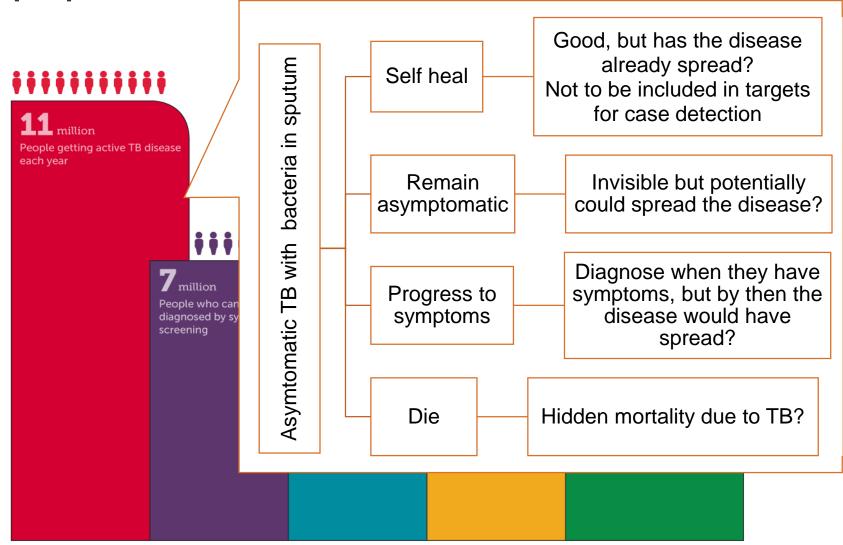














# Fate of people with TB without treatment

- Rural Bangalore, 1961-65
- Population did not have access to TB treatment
- 4 consecutive prevalence survey of TB infection and TB disease

**BULL. WORLD HEALTH ORGAN., 1974, 51 (pages 473-488)** 

"The <u>incidence cases</u> showed a natural **cure rate of 52%** and a mortality of 14% over the immediate observation period of 1½ years. <u>Prevalence cases</u> showed a **cure rate of 39%** and a mortality of 17% during the same period."

### Tuberculosis in a rural population of South India: a five-year epidemiological study\*

NATIONAL TUBERCULOSIS INSTITUTE, BANGALORE1

3292 - 473 - BULL. WORLD HEALTH ORGAN., 1974, 51

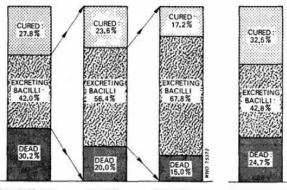
Table 10. Fate of incidence cases

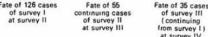
Incidence cases between :	Total	No. followed up	Cured	Dead	Remained bacillary
Surveys I and II	70	63 <sup>a</sup>	33 (52.4%)	9 (14.3%)	21 (33.3%)
Surveys II and III	40	39 <sup>b</sup>	11 (28.2%)	15 (38.5%)	13 (33.3%)

a Followed up for 1½ years.

484

#### NATIONAL TUBERCULOSIS INSTITUTE, BANGALORE





Fate of 154 cases of survey I at survey II

Fate of 136 cases of survey II at survey III

39.0%

EXCRETING

Fate of 119 cases of survey III at survey IV (adjusted for

DEAD: 23.5%

BACILLI

Fig. 2. Fate of cases discovered at the first survey and of patients who were still excreting bacilli when examined at subsequent surveys.

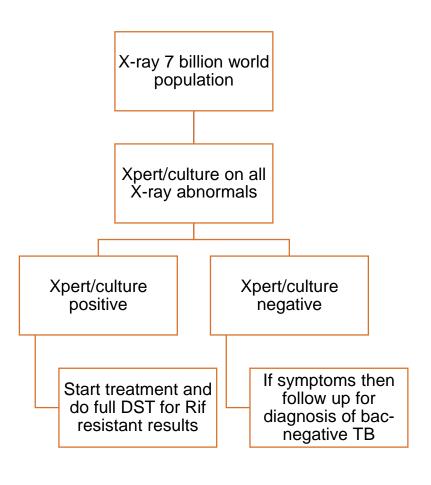
Fig. 3. Fate of prevalence cases discovered at surveys I, II, and III over a period of 1.5 years.

b Followed up for 2 years.

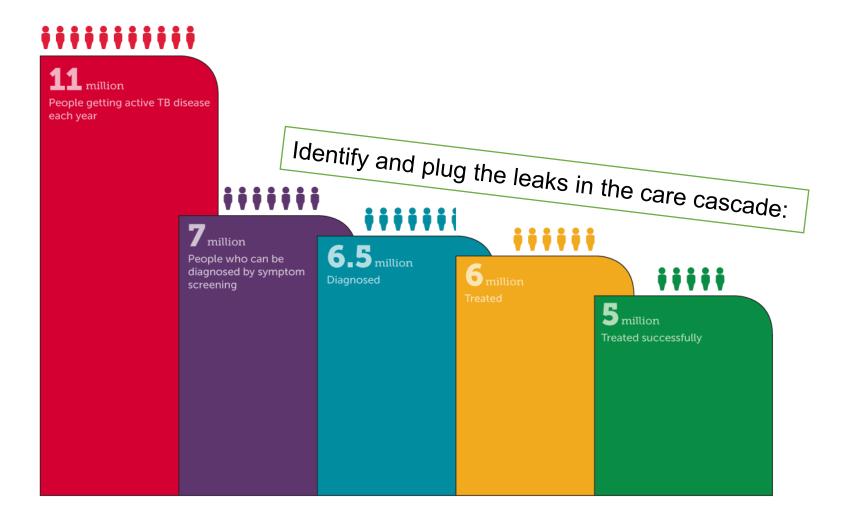


### How can we diagnose all people with TB

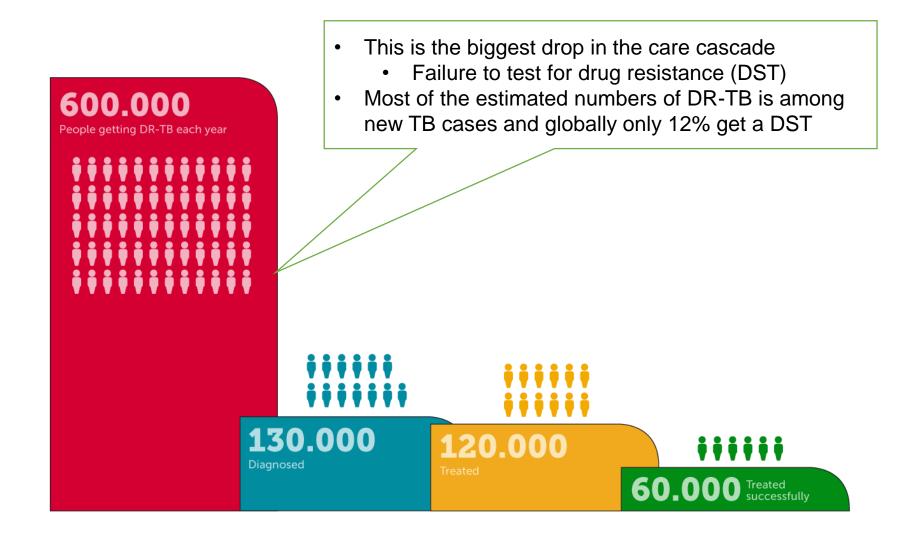
- Prevalence surveys diagnose all pulmonary TB in adults using existing diagnostic tools:
  - X-ray, culture, Xpert
  - Done in the community
- If resources are unrestricted a periodic prevalence survey approach would be the best diagnostic approach
  - Additional approaches required for children and extra-pulmonary TB
- If resources are restricted more targeted application of prevalence survey approach could be designed
- Symptom based passive approach will surely not diagnose all people with TB





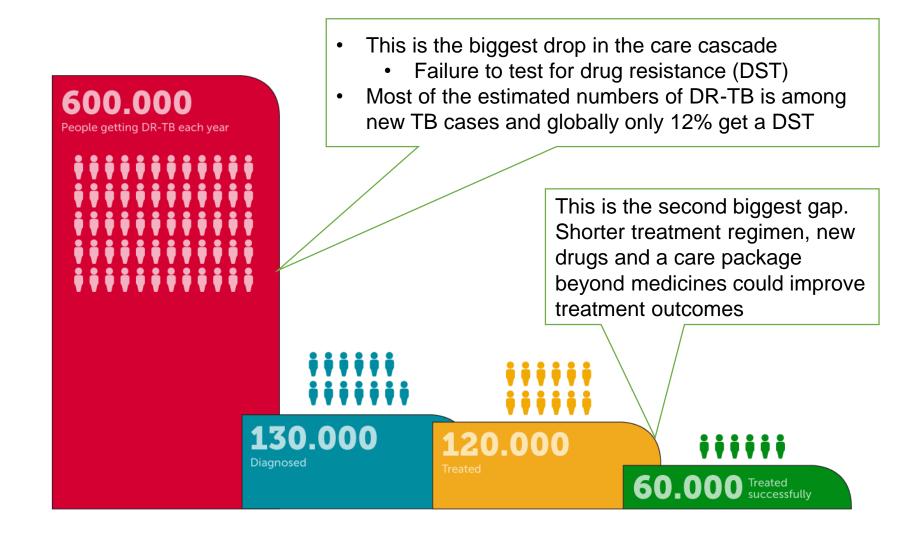














# Almost all people infected with TB fall between the cracks







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#### **Next**

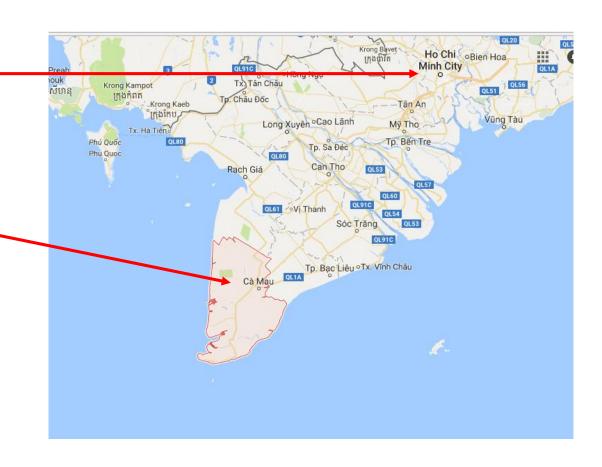
- 1. Filling gaps and making impact What does modelling show? Which gaps are important for impact?
- 2. Some country examples of doing things differently
- 3. Comments by Eric Goosby



# **Viet Nam**

**Ho Chi Mihn City** 

Cà Mau Province





## **Ho Chi Minh City**

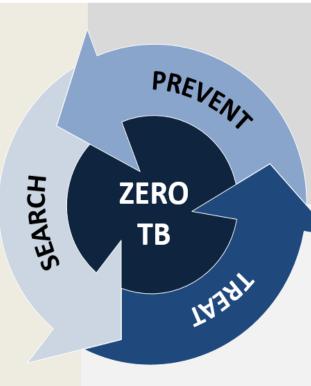
#### Comprehensive TB patient care to achieve "Zero TB"

#### Intensified case finding

- · Integrate CBO, CSO
- HH & community contact investigation
- High-risk populations

#### Test properly

- Optimized algorithm using CXR & GeneXpert
- GeneXpert Ultra & Omni
- Digital x-ray



#### **Prevention & TBI treatment**

- TB infection treatment
  - Children (<5 years)</li>
  - TB-HIV
  - · With evidence of infection
  - Contacts voluntarily requesting treatment

#### Patient-centric care

- Support enrollment process
- · Community DOT treat. site
- New technologies (vDOT)
- Psychosocial support
- · Nutrition, transport support
- Minimize catastrophic cost

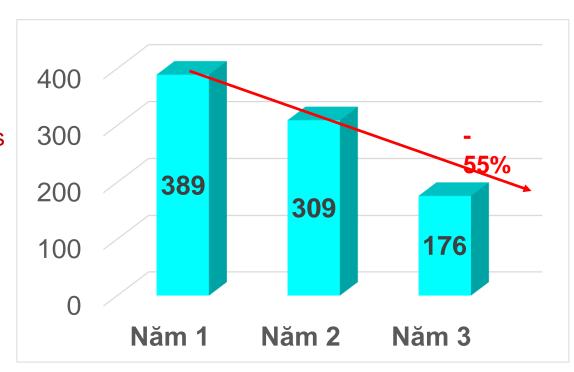






# Trend of TB Case Finding - Cà Mau Province

- 4 Year active case finding approach
- 60 Intervention communities
- Annual screening –
   anyone >= 15 years old who
   can produce sputum receives
   Xpert
- 60 Control communities will be measured at the end of year 4







# TB Case Finding activities









Reaching all people with TB means more efforts, leaving the health facilities, and a paradigm shift in the way we operate



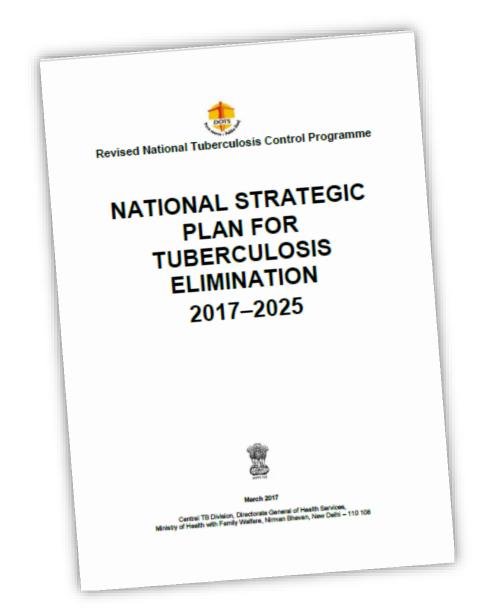
# India

Detect

**T**reat

Prevent

**B**uild





### **Bold and innovative approaches**

- Active case finding (ACF)
  - Experience (early 2017)
    - 2-week long ACF campaign done in 50 districts
    - 26,000 people tested
    - 1800 (7%) diagnosed as TB
  - Planned: ACF in 184 districts, plus 4 cities and 1 State
    - A combination of ACF in health facilities and in community.
    - Information campaign along with ACF in a campaign mode will be conducted 3 times a year
  - Scale up of X-ray and X-pert
  - Universal DST



### **Bold and innovative approaches ....2**

- Private sector TB care
  - Experience:
    - Innovative models in few cities/districts (e.g. Mumbai, Patna)
    - Notification made easy by eNIKSHAYA
    - Vouchers for reimbursements to patient
    - ICT and call centre
    - Dramatic increases in notification
  - Planned:
    - Scale up of the private sector models
    - "Follow the patient" approach
- Patient support: Direct Benefit Transfer (DBT) to patients
  - Using smart card and unique ID number "AADHAR"



- Discussion points for the Board
- How can we proceed to address the biggest gaps with impact in sight and not continue to focus only on small subsets of the need and low hanging fruits?
- Are we guided by available resources?
- Is it time to be guided by science and peoples aspiration to end TB?
- How can we promote new approaches in countries
- What should global partners do to help countries